

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

Attachment 3: Work Plan

This work plan describes the process that the Lahontan Basins Regional Water Management Group (LBRWMG), and the stakeholders it represents, will undertake to accomplish the following:

- **Development of an Integrated Regional Water Management (IRWM) Plan** – The Lahontan Basins Regional Water Management Group and the stakeholders it represents would continue to move forward with the IRWM process in support of much needed water resource project implementation. This includes development of an IRWMP that meets IRWM Plan Standards. Components include: *Salt and Nutrient Management Plan*, *Climate Change Analysis*; and an *Integrated Flood Management Plan*.

Attachment 3 is organized as follows:

- **Background Setting** – This section provides the history of the IRWM planning process in the Lahontan Basins and the context of the work plan.
- **Work Plan Content** – This section describes the specific tasks that will be performed as part of the proposal. These tasks are consistent with the budget and schedule provided in Attachment 4 and Attachment 5, respectively. One of these tasks is specifically geared towards facilitating and supporting involvement of DACs in the IRWMP planning effort.



An IRWMP planning grant funded by Proposition 84 would allow stakeholders in the Lahontan Basins Region to start filling in critical gaps identified through its IRWM process in support for water resources projects implementation, including preparation of a Salt and Nutrient Management Plan and development of an Integrated Flood Management Plan.

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

A table of content is provided below for ease of reference.

I.	Background Setting.....	3
	A. Regional Water Management Group	3
	B. Lahontan Basins IRWM Region.....	7
	C. IRWMP.....	10
	D. Stakeholder Identification and Involvement.....	11
	E. Disadvantaged Communities.....	16
II.	Work Plan Content	19
	Task 1: Ongoing Outreach.....	19
	Task 2: Lahontan Basins IRWM Plan.....	22
	Task 3: Technical Evaluations.....	37
	Task 4: Project Management/Administration.....	45

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

I. Background Setting

In 2010, a broad group of local agencies and stakeholders initiated an integrated regional water management planning effort to ensure the sustainability of the Lahontan Basins given the many pressing water resources management needs. This effort was undertaken and financed solely by agencies local to the Lahontan and did not involve funding from Proposition 50 and/or 84 for IRWM planning.

The purpose of the Lahontan Basins IRWM efforts is to expand and enhance the collaborative network of water management agencies to effectively manage all aspects of water use and conservation within the defined region, and where appropriate across regions. The IRWM will build upon the on-going watershed scale management planning efforts such as the Pine Creek/Eagle Lake CRMP and the Susan River Watershed Group. Also included are programs such as Lassen and Sierra County's groundwater management plans; the city of Susanville's flood water management, wastewater management and recreational enhancement projects; irrigation water management by the Honey Lake Valley RCD and Lassen Irrigation Company; as well as municipal water use by outlying Community Service Districts, and Susanville Indian Rancheria. As the name implies the Lahontan Basins IRWM will integrate and coordinate water management activities across the many existing agencies and public stakeholders and strive to do so in an open collaborative process.

Table 1 summarizes key activities and milestones that have taken place since 2010.

Table 1: Integrated Regional Water Management
Planning and Implementation Activities Summary

TIMELINE	KEY MILESTONES
2010	Formation of LBRWMG
2011	Successful Regional Acceptance Process application for the Lahontan Basins Region
2012	Proposition 84 Planning Grant Application (this application) to support development of an Integrated Regional Management Plan for the Lahontan Basins Region

Additional background on the water resources management needs of the Basin, activities listed in Table 1 and other topics as requested in the proposal solicitation package are provided in this section, based in large part on the Lahontan Basins Regional Water Management Plan Group actions to date.

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

Further background information can be accessed through the Lahontan Regional Water Management Plan section of the Honey Lake Valley Resource Conservation District website at www.honeylakevalleyrcd.us/LBIRWMPlan .

The work plan presented in Section II was designed to allow the LBRWMG to move forward with the next logical set of planning and implementation activities.

A. Regional Water Management Group

The key groups involved in the Lahontan Integrated Regional Water Management (IRWM) Plan development and implementation are:

- **Lahontan Basins Regional Water Management Group (RWMG)** – The RWMG is the body of 5 agencies that have signed the MOU for implementing the IRWM Plan. They are the agencies committed to implementing the Plan and updating it accordingly. Specifically, this includes Lassen County, Honey Lake Valley Resource Conservation District, the City of Susanville, the Susanville Indian Rancheria and Lassen Irrigation Company.
- **Lahontan IRWM Plan Stakeholder Group (Stakeholder Group)** – A broad, current list of potential stakeholders for the IRWM is available from the current watershed and water management efforts on-going within the region. This list can be augmented by cross referencing additional lists encompassing the Madeline Plains and Long Valley Creek. Via public meetings, local media, and local community networks, additional stakeholders will be identified.
- **Advisory Team to the IRWM Stakeholder Group (A-Team)** – This is the group that facilitates the development of the Lahontan Basins IRWMP by providing recommendations for the Stakeholder Group and the RWMG.

This section provides a description of the RWMG. The Stakeholder Group is discussed in **Section I.C.** and the A-Team is discussed in **Section II. Task 1.1.** These groups have begun to meet on a regular basis in order to facilitate the development of the IRWMP process within the Lahontan Basins. They will continue to do so to oversee and participate in the continued development of the IRWM Plan proposed in the work plan (**Section II**).

The RWMG was originally formed through a Memorandum of Understanding (MOU) that prescribed the preliminary roles and responsibilities for the RWMG including complying with

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

the IRWM Plan sections of the Water Code. The RWMG agreed to contribute funds to help develop the IRWM Plan, provide and share information, review and comment on drafts of the IRWM Plan, and adopt the final IRWM Plan.

Collectively, these agencies are actively involved in water management including groundwater management, storm and flood water control, irrigation water management and distribution, water quality, aquatic habitat, water conservation and recreation. The current make-up of the RWMG is appropriate as these agencies and local governments not only have authority over water but comprise the foundation of active regional leadership in water and watershed management. These local agencies are linked to a broad network of stakeholder agencies and interested public. Each of the proposed members has expressed clear support for moving forward with the IRWM process including the development of an IRWM plan.

The RWMG members are listed in **Table 2** along with a description of how each agency is responsible for statutory authority over water supply or water management within the Lahontan Basins Region by noting whether the agency has authority. All agencies listed in **Table 2** have adopted the Agreement and participate in the financing and governance of IRWM Plan implementation. The composition of the RWMG provides a good cross-sectional representation of all water/natural resource and land-use management activities for the Lahontan Basins Region.

There are however a number of small mutual water districts within the Region that have statutory authority over water supply and water management who are not currently members of the RWMG, but they are part of the Lahontan IRWM Stakeholder Group (see **Section I.D**).

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

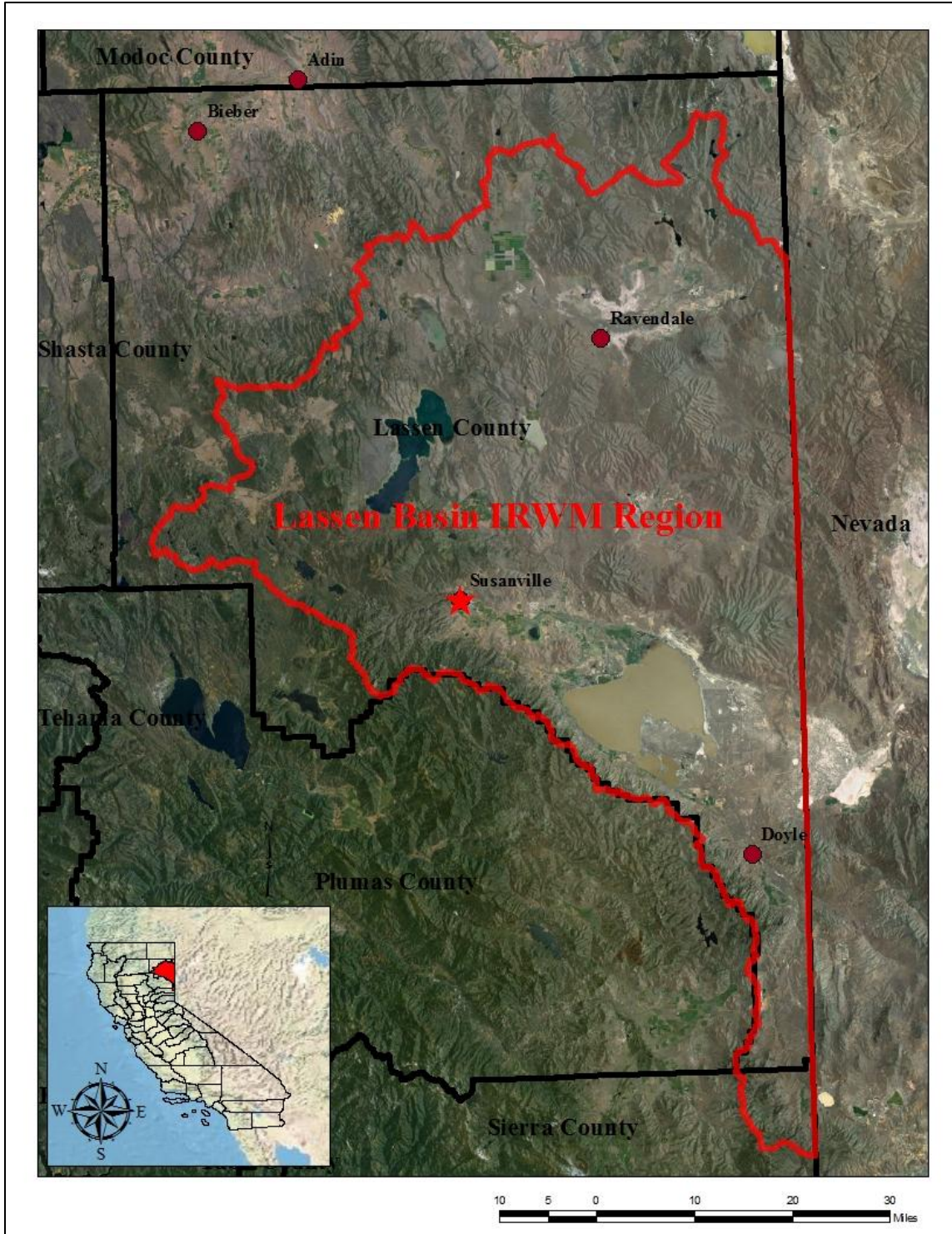
Table 2: Roles and Responsibilities of the Regional Water Management Group

AGENCY	ROLES AND RESPONSIBILITY	STATUTORY AUTHORITY OVER WATER SUPPLY OR WATER MANAGEMENT
Honey Lake Valley Resource Conservation District (RCD)	Operates as the court appointed watermaster for the Susan River and Baxter Creek Decrees. California Water Code authorizes the appointment of a local agency to act as watermaster to assure equitable distribution of water to right holders as described by decree. Implementation of California Department of Conservation Watershed Coordinator Prop 84 grant.	Water supply and water management
Lassen County	Operates under the California Water Code to adopt and implement a Groundwater Management Plan. By Ordinance requires permit and inspection for well and sewage treatment, road and drainage maintenance, exportation of groundwater, flood control and prevention, and numerous other authorities described in sections of the California Government Code and Water Code.	Flood management, storm water management, groundwater management
City of Susanville	Incorporated Municipal government that provides land-use planning, environmental, flood management, public works service, and parks and recreation services.	Water supply, water quality management, flood management/control, storm water management
Lassen Irrigation Company	Under authority granted by the California Water Code and Susan River Decree, the private water company regulates flow and distribution of irrigation water in Susan River and the McCoy, Hog Flat, and Leavitt Lake reservoir system.	Water supply
Susanville Indian Rancheria (SIR)	Federally recognized Tribal government that provides environmental and land use planning and public work service.	Water supply, water quality management, flood management/control, storm water management

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

B. Lahontan Basins IRWM Region

Figure 1: Location of the Lahontan Basins IRWM Region



Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

The regional boundary includes the Susan River watershed, Eagle Lake Basins, Madeline Plains, the Smoke Creek watershed adjacent to the Nevada state line, Long Valley Creek watershed, and additional tributaries to Honey Lake in the Janesville/Milford area such as Baxter Creek and Parker Creek among others.

Typical of the Great Basins geography, the Lahontan Basins IRWM is hydrologically unique in that it is comprised of four distinct watersheds/closed Basins (Eagle Lake, Honey Lake, Madeline Plains and Smoke Creek). Yet, in terms of effective resource management, community involvement and culture, this area is best managed as a single IRWM region. Within the defined region there are similarities in the resources issues and the individuals, communities, resource agencies and organizations have a history of working and interacting with each other. The entire boundary falls within the area of the Lahontan Regional Water Quality Control Board and mostly within Lassen County. There are some jurisdictional distinctions, but the primary basis for the proposed regional boundary has more to do with a workable area, and watersheds with common communities, similar resources, and cultures. Basically, there are many more commonalities within this region than differences.

The boundary has been discussed at multiple venues including Susan River watershed meetings, Board of Supervisors meetings, and Pine Creek CRMP meetings. The consensus drawn from these discussions along with input from Regional Water Quality Control Board and Department of Water Resources staff, resulted in the selection of the current boundary.

The Lahontan Basins Region of California is home to approximately 35,000 people living in many different communities (see **Figure 1**). People use water for drinking, bathing, household and outdoor activities, agriculture, business endeavors, recreation, and to sustain and enhance natural habitats. This common need for water links communities together in many ways. When anyone uses water, the ability of other people to use water within the Lahontan Basins Region can be affected.

The Lahontan Basins Region encompasses approximately 1,421,573 acres or 3,170 square miles in Lassen and Sierra Counties. Susanville is the County seat of Lassen County and the only incorporated city within the region. Other unincorporated communities within the region include: Janesville, Johnstonville, Standish, Wendel, Ravendale, Spaulding, Milford, Doyle, Herlong, and Madeline.

All of the water currently used in the Lahontan Basins Region comes from naturally occurring water within the Lahontan Basins Region (surface water and groundwater accumulated from rain and snow that falls in the Lahontan and surrounding mountains).

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

Resource Concerns identified in the region through the Susan River Watershed Group, Pine Creek CRMP, Board of Supervisors, RWMG A-Team meetings, and public meetings regarding the IRWM process include:

- **Water Quality**, including: salt/nutrient management/planning; temperature; dissolved oxygen; nutrients; sediment; and bacteria.
- **River and Stream Channel Erosion**, including: down cutting through mountain meadows; confined channel; in-channel irrigation infrastructure; loss of farmland; riparian corridor communities altered; sedimentation of dams; and sedimentation in Honey Lake.
- **Hydrologic Functions**, including: flooding; flashy watershed flows; reservoir management; transportation network; stream channelization; and large-scale wildfire impacts.
- **Invasive Plants and Noxious Weeds**, including: along road corridors; isolated populations; scotch thistle (*Onopordum acanthium*); Mediterranean sage (*Salvia aethiopis*); perennial pepperweed (*Lepidium latifolium*); western juniper (*Juniperus occidentalis*) encroachment due to absence of a natural fire regime; correlation between populations and parcel size, absenteeism, and road networks.
- **Water Use Efficiency**, including: seepage in irrigation distribution network; allocation of a limited resource; flow patterns and timing; in-stream structures; groundwater exportation; and the Bly tunnel.
- **Forest and Range Land Health**, including: stand density in conifer forests; juniper encroachment; forest health, fire resistance and pest infestations; rangeland health assessment – cover, hydrologic functions, habitat values; cheat grass (*Bromus tectorum*); and medusa-head (*Taeniatherum caput-medusae*)
- **Aquatic and Wildlife Habitat**, including: lack of fish and riparian habitat; fish passage; sage-grouse (USFWS candidate), Carson wandering skipper (USFWS Endangered); lakeshore bird habitat; dynamic summer flows – temperature and turbidity; invasive aquatic mollusks; and native mussel populations (*Anodonta sp.*, *Margaritifera sp.*, and *Gonidia sp.*).
- **Data Sharing**, including: regional coordination and Inter-regional coordination.

Creation of a proactive, “smart” design for the Lahontan Basins Region makes the IRWM Plan essential to efficient and effective water management.

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

C. IRWMP

The Resource Concerns identified in section B have been broken down into five categories by the RWMG A-Team which will guide the creation of objectives for the Lahontan Basins IRWMP: water supply management, water quality management, flood management, environmental resource management, and land use planning/management. Table 3 lists potential objectives by category that can act as a starting point for Stakeholder group discussions.

Table 3: LBIRWM Plan Objectives

CATEGORY	OBJECTIVES
Water Supply Management	<ul style="list-style-type: none">• Provide reliable water supply to meet the Lahontan Basins Region's expected demand between now and 2035.• Understand the effects of climate change.
Water Quality Management	<ul style="list-style-type: none">• Provide drinking water that meets customer expectations• Protect aquifer from contamination• Protect natural streams and recharge areas from contamination.• Provide irrigation water without excessive salts and minerals• Provide aquatic habitat for cold-water fisheries
Flood Management	<ul style="list-style-type: none">• Integrate current flood management planning efforts into regional master plan to reduce impacts of storm water, urban runoff, and nuisance water.• Minimize flooding and flood damage within the city of Susanville• Integrate design and management of irrigation infrastructure to minimize flood damage in agricultural areas
Environmental Resource Management	<ul style="list-style-type: none">• Preserve open space and natural habitats that protect and enhance water resources and species in the Lahontan Basins Region.
Land Use Planning/Management	<ul style="list-style-type: none">• Maintain agricultural land use within the Lahontan Basins Region.• Meet growing demand for recreational space.• Improve integrated land use planning to support water management.• Integrate with existing General Plan policies• Identify knowledge gaps

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

D. Stakeholder Identification and Involvement

Over 40 stakeholder groups that represent various water management interests have participated in, or have been identified as having an interest in, the development of the IRWM Plan for the Lahontan Basins. Together they constitute the Lahontan IRWM Stakeholder Group. They will be notified of the Region's plans to develop an IRWM Plan and be invited to participate in that process (see **Task 1 of Section II**).

1. Identification

Table 4 provides a list of all of the Stakeholders that have been identified as having an interest in the development of the Lahontan Basins IRWM Plan. These various interests provide the representation needed in order to address the objectives and strategies in the Plan. They are grouped into several categories per CWC §10541(g) and their roles in the planning process are briefly described below in addition to noting if they have statutory authority over water supply and/or water management. A brief discussion of coordination efforts with local planning, State, and Federal agencies is also provided where appropriate.

Outreach to stakeholders has been and will primarily be via public meetings of established watershed groups, individual stakeholders meetings (e.g. local Farm Bureau meetings), extension education and outreach meetings, and establishment of an IRWM website. Current mailing and contact lists of stakeholders and interested publics have been generated by the on-going watershed management groups that have been and continue to operate in the region. This ensures wide and well distributed outreach of information to a diverse clientele group. There is a strong culture of self-reliance and self-governance in the community so active participation in water and resource management issues is not new or foreign to Lassen County residents.

The potential roles in an IRWM process provided by the stakeholder groups are quite varied. The composition of the stakeholders provides the IRWM process both strong technical expertise as well as a wide range of perspectives including tribal, conservation, agricultural, municipal, waste water treatment, and land management interests.

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

Table 4: Stakeholder List

ORGANIZATION	STATUTORY AUTHORITY OVER WATER SUPPLY OR WATER MANAGEMENT
Wholesale, Retail, or Agricultural Water Purveyors/Wastewater Agencies/Flood Management Agencies/Special Districts	
Herlong Public Utilities District	Water supply, water quality management
Lake Forest Community Service District	Water supply, water quality management
Lassen Irrigation Company	Water Supply
Spaulding Community Service District	Water supply, water quality management, wastewater treatment
Leavitt Lake Community Services District	Water supply, water quality management, wastewater treatment
Stones Landing Community Service District	Water supply, water quality management
Susanville Consolidated Sanitary District	Wastewater treatment
West Patton Village Community Service District	Water supply, water quality management
Municipal and County Governments and Special Districts	
City of Susanville	Water supply, water quality management, flood management/control, storm water management
Honey Lake Valley Resource Conservation District (RCD)	Water supply
Lassen County Department of Planning and Building Services	Groundwater management, flood management/control, storm water management, well permitting process, water exportation and extraction permits
Sierra County Planning Department	Groundwater management, flood management/control, storm water management
Regulatory and Resource Agencies – State and Federal	
California Department of Conservation (DOC)	Not applicable
California Department Fish and Game (CDFG)	Water Quality Management
California Department of Public Health (DPH)	Water Quality Management
California Department of Water Resources (DWR)	Water Quality Management
Federal Emergency Management Agency (FEMA)	Emergency Preparedness
Lahontan Regional Water Quality Control Board (LRWQCB)	Water Quality Management
Sierra Army Depot (SIAD)	Water supply, water quality management, flood management, storm water management
Sierra Nevada Conservancy (SNC)	Not applicable
United States Department of Agriculture (USDA) Forest Service, Lassen National Forest (LNF)	Water Quality Management
United States Department of Agriculture Natural Resource Conservation Service (NRCS), Susanville District	Water Quality Management
United States Department of Health and Human Services (DHHS), Indian Health Services (IHS)	Water Quality Management
United States Department of Interior Bureau of Indian Affairs (BIA), Redding Regional Office	Water Quality Management
United States Department of Interior Bureau of Land Management, Eagle Lake Field Office	Water quality management
United States Environmental Protection Agency (EPA), Tribal Programs Office	Water quality management
University of California Cooperation Extension, Lassen County	Not applicable
Tribal Governments	
Honey Lake Maidu	Not applicable
Honey Lake Paiute (Wadatukuta)	Not applicable
Susanville Indian Rancheria (SIR)	Water supply, water quality management, flood management, storm water management
Pit River Tribe	Not applicable
Washoe Tribe of Nevada and California	Not applicable

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

ORGANIZATION	STATUTORY AUTHORITY OVER WATER SUPPLY OR WATER MANAGEMENT
Recreational and Environmental Entities	
Lassen Land and Trails Trust	Not applicable
Community Representatives/Social Justice Organizations/Public and Private Interests	
Eagle Lake Coordination Committee	Not applicable
Eagle Lake Guardians	Not applicable
Honey Lake Valley RCD Watermaster Advisory Committee	Not applicable
Lassen County Special Weed Action Team (SWAT)	Not applicable
Susan River Watershed Group (SRWG)	Not applicable
Pine Creek Coordinated Resource Management Plan (CRMP)	Not applicable
Lassen County Fire Safe Council (LCFSC)	Not applicable
Lassen County Times	Not applicable
Lassen Ground Water Advisory Committee	Not applicable
Sierra Radio Network	Not applicable
Susanville Indian Rancheria (SIR) Tribal Historic Preservation Office (THPO)	Not applicable
Sierra County Fire Safe and Watershed Council	
Agricultural Interests	
Lassen County Farm Bureau	Not applicable
Lassen County Cattlemen's Association	Not applicable
Sierra County Farm Bureau	Not applicable
Sierra County Cattlemen's Association	Not applicable

a) Wholesale, Retail, Agricultural Water Purveyors/Wastewater Agencies/Flood Management Agencies/Special Districts

The wholesale and retail water purveyors, wastewater agencies, flood management agencies, and special districts of the Lahontan Basins IRWM Plan Region are focused particularly on the water supply issues pertaining to the Region. The water purveyors include agencies that have water supply and water management responsibilities in the Lahontan Basins Region and include: Herlong Public Utilities District (HPUD), Lassen Irrigation Company (LIC), Lake Forest Community Services District, Spaulding Community Services District, Stones Landing Community Services District, and the West Patton Village Community Services District.

b) Municipal and County Governments and Special Districts

Municipal and county governments and special districts include local jurisdictions and land use planning agencies that have been integral in moving the IRWM Plan process forward in the Lahontan Basins Region. Their participation provides a link between local planning agencies and this IRWM Plan by offering discussion in meetings, providing accurate, consistent land use planning information, and incorporating local planning documents and goals into the project objectives.

c) Regulatory and Resource Agencies State and Federal

Several State and Federal regulatory agencies have been involved in assisting the RWMG with the IRWM Plan process to date in the Lahontan Basins Region and will continue to be involved

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

in the identification of issues, formation of objectives, and development of projects for the IRWM Plan. Coordination with these regulatory agencies is essential to the development and implementation of all recommended projects due to the need for regulatory and environmental approval prior to implementation. Their roles and responsibilities are to ensure that this IRWM Plan consider resource management, resource enhancement, and regulatory compliance standards. These agencies include: Lahontan Regional Water Quality Control Board; the California State Department of Fish and Game; the United States Department of Agriculture, Natural Resources Conservation District; the USDA Forest Service, Lassen National Forest; Bureau of Land Management, Eagle Lake Field Office; California Department of Water Resources; Sierra Army Depot (SIAD), California Department of Conservation; Sierra Nevada Conservancy; Indian Health Service (IHS); Bureau of Indian Affairs (BIA); and the University of California Cooperative Extension, Lassen County.

d) Recreational and Environmental Entities

The role and responsibility of the recreational and open space entities is to ensure that issues and goals related to conservation and protection of the natural resources and habitat within the Region are incorporated in the IRWM Plan. The communities involved include the Lassen Land and Trails Trust. They too will continue to be actively involved through the development of the IRWM Plan.

e) Community Representatives/Public and Private Interests

Other Stakeholders involved in the development and implementation of the IRWM Plan include other community representatives such as groups formed around a particular interest such as noxious weeds, sage grouse, fire safety, and Eagle Lake, among others. Representatives of the Lassen County Times will be encouraged to attend RWMG stakeholder meetings and inform their readership of the goals and objectives of this IRWM Plan.

f) Agricultural Interests

Agricultural producers and groups that advocate for agricultural interests have been actively involved in the IRWMP process to date. Agriculture is one of the most important economic industries in the region. Issues relating to water availability, quality, and distribution for agricultural production are the major concerns in this dry desert region.

2. Involvement

Members of the RWMG held a special public meeting to inform stakeholders of the IRWM process and future opportunities to provide extensive collaborative input into the shape of the Lahontan Basins IRWM Plan as well as providing IRWMP updates at Susan River Watershed Group, Pine Creek CRMP, Board of Supervisor, Susanville City Council, and Susanville Indian Rancheria Tribal Business Council meetings. For those topics that require further discussion

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

during Plan development, it is anticipated that stakeholders will create smaller, focused technical committees to ensure that all stakeholder concerns are being considered while continuing to expedite this IRWM Plan development process.

Membership in the stakeholder group is broadly extended to a number of entities, and membership continues to grow. Neither a financial contribution nor agency status will be required to be part of the collaborative IRWM Plan development process. Through extensive outreach efforts, individuals from disadvantaged, small, and rural communities as well as other interested groups will be continually encouraged to participate, and they are being informed of IRWM Plan development efforts through presentations, media relations, and information disseminated in their communities (*See Task 1.2 of Section II*).

Outreach programs, aimed specifically at disadvantaged communities (DACs), will include outreach meetings held in the disadvantaged communities; outreach booths at community-wide events such as the annual Lassen County Fair; and publication of all meeting materials, presentations, technical resources, LBIRWM Plan goals and objectives and proposed project ideas on the Lahontan Water Plan website (www.honeylakevalleyrcd.us/LBIRWMPlan). These efforts will continue and will be supplemented by targeted outreach efforts detailed in **Task 1.3 of Section II**.

Monthly LBIRWM Plan Stakeholder Group Meetings will be held so that all entities and the general public can be involved and engaged in the IRWMP process. In addition to LBIRWM Plan Stakeholder Group Meetings, committees will be formed to further examine different aspects of improvements. Committees will include the Salt and Nutrient Management Committee, the Conservation Committee, the Public Outreach Committee and the Water Supply Committee.

Notice of LBIRWM Plan Stakeholder Group meetings/agendas and follow-up meeting minutes will be posted on the Lahontan Water Plan website, as well as placement with local news media. Additionally, email notifications will be sent to all interested parties with announcement of upcoming meetings/agendas sent approximately one month prior to a scheduled meeting. Local media is typically present for coverage through print medium for the general public to gain knowledge of current activities tied to the LBIRWM Plan program.

The region desires to sustain this level of stakeholder involvement through the implementation of the IRWM Plan; continuation of the activities described above (primarily LBIRWMP Plan Stakeholder Group Meetings, outreach to DACs, and website maintenance) was therefore assumed in the proposed work plan presented in Section II.

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

E. Disadvantaged Communities

This section summarizes the process used to identify the region's DACs and how they will be engaged in the IRWM process.

1. Identification

In Proposition 50, Chapter 8, DACs are defined as having an annual median household income (MHI) that is less than 80 percent of the statewide annual median household income, which is \$37,994 using Census 2000 data. To begin identifying disadvantaged areas in the Lahontan Basins Region, an initial assessment was conducted using 2000 Census data. In order to provide the most accurate determination of the DACs in the Lahontan Basins Region, MHI was compared at the census tract level. The analysis showed that all of Lassen County and the City of Susanville were considered DACs. The following DACs and their critical water related needs were identified in the Lahontan Basins Region:

Lassen County

- Adequate water supply, water quality, and distribution for agricultural production and other economic opportunities in the region
- Treatment and control of noxious weed infestation in the region with particular interest in perennial pepperweed (*Lepidium latifolium*)
- Protection of watersheds through reduction of risk of potential catastrophic wildfires.
- Improvement of rangeland conditions through treatment of invasive western juniper (*Juniperus occidentalis*)
- Development of water and wastewater infrastructure to promote growth in disadvantaged communities
- Maintain and enhance recreational and tourism values of Eagle Lake

City of Susanville

- Protection of water supply for public drinking water system
- Flood management
- Recreational opportunities to promote tourism and community spirit

Susanville Indian Rancheria

- Water supply for future tribal housing
- Protection of existing housing from wildfire
- Protection and enhancement of traditional aboriginal natural resources (fauna, flora, cultural, and water)
- Tribal water rights

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

Task 1.3 of the work plan details how the LBIRWMG will follow up on these issues, seek to identify new ones, and implement strategies to improve the chances of addressing these water-related needs of the Region's DACs.

a) Rural/Isolated Communities

Many communities that do not face the economic constraints of disadvantaged communities must deal with obstacles due to limited resources and geographic location. Many smaller, rural communities in the area are isolated, both politically and physically, from the agency and organizational happenings in the Lahontan Basins Region. These communities will be incorporated into IRWM Plan outreach efforts to address of this isolation.

b) Native American Tribal Identification

Outreach efforts have been made to identify and contact local Native American tribal communities. The Susanville Indian Rancheria (SIR), a federally recognized Indian Tribe with aboriginal ties to the Mountain Maidu, Northern Paiute, Pit River, and Washoe tribes, has agreed to become a member of the Regional Water Management Group and participate in the IRWM Plan process. Additional Native American groups and tribes within the region and outreach efforts will continue to be made to encourage their participation.

2. Involvement

The DAC outreach strategy and action steps takes advantage of existing efforts and relationships, working directly with community leaders and RWMG members, and gathering and using input from all stakeholders. The members provide technical assistance and other resources, as well as encourage participation from the smaller, disadvantaged communities in the Stakeholder Group.

The proposed governance structure of the IRWM Group has been designed to encourage regional participation and to continue to reach out to DACs and provide technical assistance to those who need it. Representation from DACs in the stakeholder group is beneficial in implementing the Plan in a fair and balanced way.

Outreach efforts will not be limited to DACs, rather they will extend to all communities in the Region to include taking the IRWM Plan message to traditionally-isolated and more rural areas of the Lahontan Basins to include the following communities:

- Madeline/Termo/Ravendale
- Spaulding/Stones Landing
- Herlong/Doyle
- Loyalton/Sierraville
- Litchfield/Standish/Wendel
- Janesville/Milford

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

These are unincorporated communities that are generally very small in population, have fewer resources, and thus, a smaller organizational structure. Most often, these towns are not able to participate in many of the larger projects that municipalities are engaging in with respect to water and environmental resource related issues in the Lahontan Basins Region. This approach is believed to be the most effective way to reach the largest possible number of stakeholders and gather information from DACs, underrepresented, rural communities, and, therefore, all areas within the Lahontan Basins Region within the short timeframe required by this IRWM Plan schedule.

Outreach efforts will include scheduling outreach meetings in the DACs, presenting information at community events, contacting community groups, providing all information in an accessible way and also new ways to even further promote and increase DAC involvement in the IRWM Plan update.

The region desires to maintain DAC outreach through the implementation of the LBIRWM Plan; implementation of the activities described above is detailed in the proposed work plan presented in Section II.

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

II. Work Plan Content

The work plan tasks assume a 24-month contract timeframe starting on July 2012.

Task 1: Ongoing Outreach

The ongoing outreach process is critical to the implementation of the Lahontan Basins IRWM Plan. Keeping the LBIRWM Plan Stakeholder Group, Disadvantaged Communities, and general public involved in the process ensures that the development of the LBIRWM Plan will be successful.

As described in Section I.G., the current outreach process consists of posting agendas, summaries, handouts, and presentations on the Lahontan Water Plan website (www.honeylakevalleyrcd.us/LRWMP), the development of the Public Outreach Subcommittee, outreach meetings located within DAC areas and having booths at community events.

The scope of this task was designed to continue this process during the contract timeframe.

Task 1.1: Advisory Team Meetings

The Advisory Team (A-Team) is a group of ten members, two from each member of the RWMG that were directed by their organizations to attend staff meetings to facilitate the development and implementation of the LBIRWM Plan. The two members from each RWMG on the A-Team consist of a staff member involved in land use and/or water use planning and a member of the elected body of that organization. The members of the A-Team represent a diverse range of water related interests including agriculture, conservation and water quality, industry and commerce, municipalities, public landowners and rural town councils, mutual water companies and urban water suppliers.

The A-Team is responsible for:

- Handling the dissemination of information to all parties within the larger Stakeholder Group
- Maintaining the Lahontan Basins Water Plan website
- Formulation of meetings/agendas/lead and conduct meetings
- Recommendations to the Stakeholder Group to hire and manage consultants as necessary
- Managing operating funds as provided in an approved budget
- Providing facilitation for implementation process
- Coordinating with a designated legal entity to execute contracts and financial transactions
- Initiating with Stakeholder Group actions to identify, select and apply for appropriate funding opportunities

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

The objective of this task is to continue the support of the A-Team, including preparation for, facilitation of, and participation in Advisory Team meetings. By continuing the support of the A-Team, information regarding the IRWM Plan and updates to the Plan can continue to be easily distributed to the LBIRWM Plan Stakeholder Group and any other interested parties. To fulfill its responsibilities, the A-Team is expected to meet on a monthly basis throughout the duration of the IRWM Plan Update (24 meetings). These meetings will be set up and attended by up to two agency staff as noted in Attachment 4 for up to 4 hours each. Consultant staff will assist with facilitating these meetings, presenting the findings of technical evaluations (see Task 2) to A-Team members, and provide input and direction to help with decision-making.

Deliverables:

- Draft and final agendas, materials and handouts, and meeting notes.

Task 1.2: LBIRWM Plan Stakeholder Group Meetings

During the drafting and adoption of the IRWM Plan, LBIRWM Plan Stakeholder Group Meetings will be held at least once a month with a maximum of three meetings per month. The meetings, which will all be open to the public, will consist of facilitated discussions of major items of interest, to review draft plan chapters, and to provide input on the agenda for upcoming stakeholder meetings. These meetings will be announced to a broad distribution list via e-mail, mailers, local news media, and the website and all materials developed for use in stakeholder meetings will be made available on the project website.

In addition to LBIRWM Plan Stakeholder Group Meetings, committees will be formed to further examine different aspects of improvements. Proposed committees include:

- Technical Advisory Committee (TAC)
- Salt/Nutrient Management Plan Committee
- Conservation Committee
- Public Outreach Committee
- Ag Water Supply Committee
- Noxious Weed Committee
- Flood Management Committee

Notice of LBIRWM Plan Stakeholder Group meetings/agendas and follow-up meeting minutes will be posted through the www.honeylakevalleyrcd.us/LRIRWMPlan website, as well as placement with local news media. Additionally, email notifications will be sent to all interested parties with announcement of upcoming meetings/agendas sent approximately one month prior to a scheduled meeting. Local media is typically present for coverage through print medium for the general public to gain knowledge of current activities tied to the LBIRWM Plan program.

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

Any stakeholder interested in receiving updates on the implementation of the IRWM Plan is able to register for email notifications at the www.honeylakevalleyrcd.us website.

Stakeholder meetings are open to anyone. Agendas are drafted by the A-Team and distributed for comment to LBIRWM Plan Stakeholder Group members prior to meetings, and there is an allocated time period for open discussion or notice of interest items.

The objective of this task is to continue the support of the LBIRWM Plan Stakeholder Group Meetings, including: preparation for, facilitation of, and participation in LBIRWM Plan Stakeholder Group meetings. The continued support of the LBIRWM Plan Stakeholder Group meetings will ensure that the general public and all entities will be able to be informed about LBIRWM Plan development, projects status and grant application status updates, as well as funding opportunities and general items of interest. In order to establish momentum and maintain interest in the IRWM Plan process, meetings are scheduled to be held monthly (24 meetings) that will require the support of agency staff (as noted in Attachment 4; up to 2 hours each person per meeting), project staff and consultant staff (up to 2-4 hours each person per meeting).

Deliverables:

- Draft and final agendas, materials and handouts, and meeting notes. This information will be posted and made available to all via the www.honeylakevalleyrcd.us/LBIRWMPlan website. It will also be included as an appendix to the IRWM and the activities and results will be summarized in Section 1 of the IRWM Plan.

Task 1.3: Continued Outreach to DACs

Disadvantaged Communities (DACs) have historically been disproportionately impacted with respect to the development, implementation, or enforcement of environmental laws, regulations, and policies due to race, culture, or income. To ensure that DACs are not negatively impacted by any updates to LBIRWM Plan, outreach to the DACs will continue to encourage participation and solicit input into the LBIRWM Plan updates.

- DACs:
 - Lassen County, Rural/Isolated Communities
 - City of Susanville
- Tribal Governments:
 - Susanville Indian Rancheria
 - Pit River Tribe
 - Washoe Tribe of California and Nevada
 - Honey Lake Maidu

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

- Wadatukuta Band of Northern Paiute

Outreach programs include outreach meetings held by the Public Outreach Committee in the disadvantaged communities; outreach booths at community wide events such as the annual Lassen County Fair; and publication of all meeting materials, presentations, technical resources, LBIRWM Plan goals and objectives and proposed project ideas on the website. In addition, the Public Outreach Committee will consult with other nearby agencies that managed successful DAC outreach campaigns.

The objective of this task is to continue the ongoing outreach programs to DACs, communities that nearly fit the DAC profile and underrepresented communities. The continued outreach to these communities ensures that the communities will be aware of the development of the IRWM Plan. By making the communities aware of the Plan Updates, they are more likely to provide valuable input into the decision process which results in the implementation of a fair and balanced Plan. To meet this objective, up to 12 meetings are proposed to be held and supported by agency staff (see Attachment 4 - up to 4 hours per meeting per staff person), project staff and consultant staff (3 to 8 hours per meeting per staff person which includes preparation time).

Deliverables:

- Draft and final agendas, materials and handouts, and meeting notes for Public Outreach Committee Meetings. These will be included as an appendix to the IRWM Plan. A summary of the activities and results will be incorporated into Section 1 of the IRWM Plan.
- Notices and newsletters to communicate IRWM program activities.

Task 2: IRWM Plan

The objective of this task is to develop an IRWMP for the Lahontan Basins Region that meets the latest California State IRWM Plan standards and incorporates findings from Task 3 findings. The Lahontan Basins IRWM Plan will be drafted to meet current IRWM standards. Table 6 provides an outline of the IRWM Plan and how these sections will be developed through the specific tasks listed in the work plan.

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

Table 5: Proposed Lahontan Basins IRWM Plan Sections, how they meet State Standards, and
Associated Work Plan Tasks

Proposed IRWM Plan Sections	IRWM Plan Standards (August 2010)	Proposed Work Plan Tasks Designed to Meet Standards
SECTION 1: INTRODUCTION 1.1 Background 1.2 Stakeholder Participation 1.2.1 Regional Water Management Group 1.2.2 Planning Group (“Stakeholders”) 1.2.3 Disadvantaged Communities 1.2.4 Activities 1.2.5 Community Outreach 1.3 Plan Development 1.3.1 Goals for Planning Group 1.3.2 Planning Process 1.3.3 Potential Obstacles to Plan Implementation 1.3.4 Groundwater Management Plan	Stakeholder Involvement <ul style="list-style-type: none"> Stakeholder composition Process used to identify stakeholders Disadvantaged communities Technology and information access Decision-making process Involving stakeholders 	Task 1.1 Task 1.2 Task 1.3
SECTION 2: REGION DESCRIPTION 2.1 Region Overview 2.2 Location 2.3 Climate Statistics 2.4 Hydrologic Features 2.4.1 Surface Water 2.4.2 Groundwater 2.5 Land Use 2.6 Social and Cultural Values 2.7 Economic Conditions and Trends 2.8 Population 2.8.1 Demographics 2.8.2 Regional Growth Projections 2.9 Regional Issues 2.9.1 Climate Change 2.9.2 Salt and Nutrient Management 2.9.3 Flood Management	Regional Description <ul style="list-style-type: none"> Description of watersheds/water system Description of internal boundaries Water supply and demand Water quality Description of major water related objectives and conflicts Explanation of regional IRWM boundary Identification of neighboring or overlapping IRWM regions Climate Change <ul style="list-style-type: none"> Identify climate change impacts and developing adaptation strategies Describe and consider the effects of climate change Climate change mitigation/GHG reduction Implementation of the climate change standard 	Task 2.1 Task 2.2 Task 2.4 Task 2.8 Task 3.1 Task 3.2 Task 3.3
SECTION 3: ISSUES & NEEDS 3.1 Water Supply Management Assessment 3.1.1 Water Entering 3.1.2 Surface Storage 3.1.3 Groundwater Storage 3.1.4 Direct Deliveries 3.1.5 Recycle/Reuse 3.1.6 Water Demands 3.1.7 Water Leaving 3.1.8 Water Budget Comparisons		Task 2.1 Task 2.2 Task 2.3 Task 2.4

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

<p>3.1.9 Regional Water Supply Issues, Needs, Challenges, and Priorities</p> <p>3.2 Water Quality Management Assessment</p> <p>3.2.1 Local Groundwater Quality</p> <p>3.2.3 Wastewater and Recycled Water Quality</p> <p>3.2.4 Local Surface Water and Stormwater Runoff Quality</p> <p>3.2.5 Regional Water Quality Issues, Needs, Challenges, and Priorities</p> <p>3.3 Flood Management Assessment</p> <p>3.3.1 Regional Flood Management Issues, Needs, Challenges, and Priorities</p> <p>3.4 Environmental Resource Management Assessment</p> <p>3.4.1 Important Ecological Processes</p> <p>3.4.2 Regional Environmental Resource Issues, Needs, Challenges, and Priorities</p> <p>3.5 Land Use Management Assessment</p> <p>3.5.1 Recreation</p> <p>3.5.2 Regional Land Use Issues, Needs, Challenges, and Priorities</p>		
<p>SECTION 4: OBJECTIVES</p> <p>4.1 Objectives Development</p> <p>4.2 Water Supply Management Objectives and Targets</p> <p>4.3 Water Quality Management Objectives and Targets</p> <p>4.4 Flood Management Objectives and Targets</p> <p>4.5 Environmental Resource</p> <p>4.6 Land Use Management Objectives and Targets</p>	<p>Objectives</p> <ul style="list-style-type: none"> • Determining objectives • Describing the process • Measuring the objectives • Prioritizing IRWM Plan objectives • Objectives, goals, and the planning hierarchy • 	<p>Task 2.2</p> <p>Task 3.1</p> <p>Task 3.2</p> <p>Task 3.3</p>
<p>SECTION 5: WATER MANAGEMENT STRATEGIES</p> <p>5.1 Introduction</p> <p>5.1.1 Water Management Strategy Descriptions</p> <p>5.1.2 Call for Projects</p> <p>5.2 Water Management Strategies</p> <p>5.2.1 Water Supply Management Strategy</p> <p>5.2.2 Water Quality Management Strategy</p> <p>5.2.3 Flood Management Strategy</p> <p>5.2.4 Environmental Resource Management Strategy</p> <p>5.2.5 Land Use Management Strategy</p>	<p>Resource Management Strategies</p> <ul style="list-style-type: none"> • New resource management strategies • Documenting the process 	<p>Task 2.5</p> <p>Task 3.1</p> <p>Task 3.2</p> <p>Task 3.3</p>
<p>SECTION 6: PROJECT</p>	<p>Integration</p>	<p>Task 2.3</p>

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

<p>INTEGRATION AND OBJECTIVE ASSESSMENT</p> <p>6.1 Integration and Objectives Assessment “within” a WMSA</p> <p>6.1.1 Water Supply WMSA</p> <p>6.1.2 Water Quality WMSA</p> <p>6.1.3 Flood Management WMSA</p> <p>6.1.4 Environmental Resource WMSA</p> <p>6.1.5 Land Use Management WMSA</p> <p>6.2 Assess Projects for Multiple Benefits “Across” WSMA</p> <p>6.2.1 Geographic Integration</p> <p>6.2.2 Compliance with, and Objectives Assessment for the IRWM Plan Guideline Strategies, AB 3030, IRWM Plan Guidelines Program Preferences, and Statewide Priorities</p> <p>6.3 Added Benefits of Integration</p> <p>6.4 Conclusions</p>	<p>The intent of the Integration Standard is to ensure the RWMGs intentionally create a system where integration can occur. Potentially types of integration may include:</p> <ul style="list-style-type: none"> Stakeholder/institutional Integration Resource integration Project implementation integration 	<p>Task 2.5</p> <p>Task 2.6</p>
<p>SECTION 7: IRWM PLAN AND PROJECTS EVALUATION AND PRIORITIZATION</p> <p>7.1 Introduction</p> <p>7.2 IRWM Plan Impacts and Benefits Assessment</p> <p>7.2.1 Advantages of Preparing a Regional Plan</p> <p>7.2.2 Interregional Benefits and Impacts</p> <p>7.2.3 Benefits to Disadvantaged Communities</p> <p>7.2.4 Resource Specific Impacts</p> <p>7.3 IRWM Projects Evaluation and Ranking</p> <p>7.4 Current High Priority Projects</p> <p>7.4.1 High Priority Projects. Benefit/Cost Assessment.</p>	<p>Project Review Process</p> <ul style="list-style-type: none"> Process Components <ul style="list-style-type: none"> Procedures for submitting a project for inclusion in the IRWM Plan Procedures for review of <ul style="list-style-type: none"> project to implement the IRWM Plan Procedure for communicating the list of selected projects. Review factors <p>Impacts and Benefits</p> <ul style="list-style-type: none"> Water supply enhancement Water quality improvement Groundwater improvements Water conservation and reuse Watershed rehabilitation Habitat improvement Flood management 	<p>Task 2.3</p> <p>Task 2.6</p>
<p>SECTION 8: FRAMEWORK FOR IMPLEMENTATION.</p> <p>8.1 Framework Introduction</p> <p>8.1.1 Existing Plans and Programs</p> <p>8.1.2 Relationship to Local Planning</p> <p>8.1.3 Relationship of Other Planning Documents to IRWM Plan Objectives</p> <p>8.2 Institutional Structure</p> <p>8.2.1 Organizational Structures for Regional Collaboration</p> <p>8.2.2 Governance Structure</p> <p>8.2.3 Objectives for New Governance Structure</p> <p>8.2.4 Recommended Roles for New</p>	<p>Coordination</p> <ul style="list-style-type: none"> Coordination of activities within an IRWM Region Identification and coordination with neighboring IRWM Regions <p>Governance</p> <ul style="list-style-type: none"> Group responsible for development of the Plan Public notice requirements Plan adoption Description of chosen governance structure Description of how governance addresses and ensures various activities 	<p>Task 2.6</p> <p>Task 2.7</p> <p>Task 2.9</p>

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

<p>Governance Structure</p> <p>8.3 Implementation of High Priority Projects</p> <p>8.3.1 Lead Agency</p> <p>8.3.2 Implementation Schedules</p> <p>8.3.3 Financial Needs of Selected High Priority Projects</p> <p>8.3.4 Beneficiaries and Funding/Financing Options</p> <p>8.4 Data Management</p> <p>8.4.1 Management and Data Reporting</p> <p>8.4.2 Statewide Data Needs</p> <p>8.4.3 Existing Monitoring Efforts</p> <p>8.4.4 Integration of Data into Existing State Programs</p> <p>8.5 Technical Analysis and Plan Performance</p> <p>8.5.1 Technical Analysis</p> <p>8.5.2 Data Gaps 8.5.3 IRWM Plan Performance</p> <p>8.6 Future LBIRWM Plan Activities</p> <p>8.6.1 Process for Developing Future Projects</p> <p>8.6.2 Future LBIRWM Plan Updates</p>	<ul style="list-style-type: none"> • Effective decision making • Balanced access and opportunity for participation • Effective communication – both internal and external to the IRWM Region • Long-term implementation of IRWM Plan • Collaborative process used to establish Plan objectives • Interim changes and formal changes to the Plan • Updating or amending the IRWM Plan <p>Plan Performance and Monitoring</p> <ul style="list-style-type: none"> • Explain who is responsible • Frequency • Data management • Lessons learned • Project specific monitoring plans <p>Data Management</p> <ul style="list-style-type: none"> • Data needs <ul style="list-style-type: none"> ○ Data collection techniques • Stakeholder contributions • Responsible entity • Validation or QA/QC measures • Transfer of data between RWMG members and other stakeholders • Data management system and how this helps share data and is compatible with State systems. <p>Financing</p> <ul style="list-style-type: none"> • Sources of funding • Certainty of funding 	

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

Task 2.1: Regional Description

Numerous documents and information exist regarding watersheds within the Lahontan Basins Region that will provide extensive background data for use in developing the IRWMP Regional Description, including: Susan River Rapid Watershed Assessment (RWA) completed by the NRCS in 2012; Conservation Plan for Pine Creek and the Eagle Lake Rainbow Trout; Eagle Lake Management Plan; the Lassen County Groundwater Management Plan and many others. These documents are detailed and extensive, and the data will contribute significantly to the completion of this region description (as stipulated in the DWR Prop 84 Guidelines, Appendix C). However, data will need to be updated and expanded to ensure consistency with the IRWMP guidelines, and in some cases data gaps will need to be identified and filled. Source materials will need to be integrated and an integrated region description created. Included in this section will be a discussion of major water related issues and conflicts.

Deliverables

- Regional description, including issues and concerns for the IRWMP

Task 2.2 Develop Goals and Objectives

A preliminary list of objectives has been compiled based on issues and concerns provided by numerous Stakeholder groups within the region (*See Section 1.C*). This draft list of objectives will be presented to the Stakeholder Group and will be discussed amongst the entire group and new stakeholder comments will be reviewed and incorporated into the objectives, as appropriate. The list will then be finalized and incorporated into the IRWMP.

Water-related issues and needs vary with time – especially as planning activities are looking out to the next 20 to 30 years. It is therefore good practice to confirm or update planning objectives every 5 to 10 years. Planning objectives and goals update was therefore included in the proposed work plan presented in Section II.

Deliverables:

- Draft and final IRWM Plan goals and objectives

Task 2.3 Determine Regional Priorities

To prioritize proposed projects, the Stakeholder Group and RWMG, through a process of broad facilitated agreement, will create a project evaluation matrix. The RWMG A-Team has developed potential evaluation criteria based on the review of other regions that are farther along in the IRWM process. These criteria, which will be further developed and agreed upon in a collaborative process between the Stakeholders and the RWMG, is described in greater detail below. After the development of the evaluation matrix, the Stakeholders will be broken up into groups and asked to give a preliminary “priority” ranking to each project based on the

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

information in the matrix and the discussions presented at the meeting. The group will be asked to assign priority under the assumption that any particular project will be implemented with or without grant funding. Priority is given as follows:

- A ‘high’ priority is assigned to projects the group will take action on within the next two (2) years.
- A ‘medium’ priority is assigned to projects the group will take action on within the next five (5) years.
- A ‘low’ priority is assigned to projects the group will take action on within the next five (5) to ten (10) years.

Based on the Stakeholders determinations of the ranking process above, the projects and alternatives given ‘high’ priority are selected for implementation. It should be noted that objectives, needs, and conflicts can change and that projects selected for implementation may also change or become obsolete.

Potential Evaluation Criteria

1. CEQA Completed, or Not Required

Activities funded under Proposition 50 must be in compliance with the CEQA. Projects that have completed CEQA analyses or do not require CEQA review would be given a point.

2. Cost Estimates Prepared (with some detail)

A point is given to projects that are farther along in their estimation of their project costs. This allows Stakeholder to determine the readiness of projects to proceed.

3. Schedule Prepared

Preference is given to those projects that demonstrate a ‘readiness to proceed’. A point will be given to those projects that have a schedule for implementation that is consistent with its project description and cost estimate. The three evaluation criteria above: (1) CEQA, (2) Cost Estimation (including cost/benefit detail if available), and (3) Schedule, collectively give the Stakeholders an indication of the readiness to proceed for a particular project.

4. Have Broad Support among LBIRWM Plan Stakeholders

It is ultimately up to the Lahontan Basins Region Stakeholders to determine which water management projects and actions they wish to implement to address their issues and needs, and only those projects that are supported by the group are likely to move forward. Therefore, those projects that have broad support amongst the IRWM Plan stakeholders would be given a point.

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

5. Integrates Easily with Other Projects

A key criterion for prioritization is the ability of a project to integrate with other projects and maximize linkages between projects. Projects that can be integrated easily with other projects are given a point.

6. Number of IRWM Plan Objectives and Planning Targets Addressed

The IRWM Plan objectives and planning targets are used to evaluate projects. Priority is assumed to weigh more heavily on projects that meet more than one IRWM Plan objective. Therefore, for each project, the number of objectives that a project contributes to is tallied as its score for this criterion.

7. Six or More AB 3030 Elements Addressed

The Assembly Bill (AB) 3030 elements for a Groundwater Management Plan are used to evaluate projects. Projects that contribute to six or more AB 3030 elements are given a point.

8. Six or More Water Management Strategies Addressed

Water management strategies, identified and correlated with the California Water Plan strategies in the Lahontan Basins IRWM Plan, will be used to evaluate projects. Projects that contribute to six or more water management strategies are given a point.

9. Four or More IRWM Plan Preferences Addressed

The IRWM Plan preferences will be identified and used to evaluate projects. Projects that contribute to four or more IRWM Plan preferences will be given a point.

10. Five or More Statewide Priorities Addressed

The statewide priorities are used to evaluate projects. Projects that contribute to five or more statewide priorities will be given a point.

11. Consistency with General Plans

The local and regional general plan policies related to water supply, water quality, flood management, environmental resource management, and land use management are identified and will be used to evaluate projects. Projects that demonstrate consistency with the general plan policies will be given a point.

12. Serves a Disadvantaged Community

A DAC is assumed to benefit from a particular project if the project increases the reliability of water supply for the Lahontan Basins Region as a whole, enhanced water quality in the Lahontan Basins Region, or if the DAC is located within the service area of a proposed project. In this manner, a project will be given a point if it is determined to benefit a DAC.

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

13. Regional Priorities

Regional priorities are intended to guide development of the IRWM Plan. These priorities are inherently integrative to the objectives and planning targets that address the Lahontan Basins Region's issues and needs. Based on discussions with the RWMG and the greater Stakeholder group, the following initial short-term (3 to 5 years) and long-term (20 years) priorities have been identified for the Lahontan Basins Region. For each project, the number of regional priorities that a project contributes to will be tallied as its score for this criterion.

a) Short-term Implementation Priorities (-5years)

- Complete the Lahontan Basins IRWM Plan within 2-3 years
- Identify projects that will meet the gap between existing projects and the Regional planning targets
- Maximize funding opportunities for project implementation from local, state, and federal funding sources

b) Long-term Implementation Priorities (20 years)

- Optimize use of conjunctive management, conservation, and stormwater to enhance water supply reliability
- Enhance irrigation water use efficiency through management and infrastructure improvement
- Enhance watershed yield, water quality, and aquatic habitat through forest, range, and meadow improvement
- Provide adequate water and wastewater services to meet projected growth
- Protect groundwater supplies
- Preserve open space, agricultural land uses, conserve functional habitats, and protect special-status species
- Continue to meet applicable water quality standards
- Expand voluntary water conservation programs for residential, commercial, industrial and agricultural uses

Additionally, projects will be reviewed for geographic coverage while using a mix of plan objectives and water management strategies to provide multiple benefits. Stakeholders will also be given an opportunity to present support for projects, to discuss the merits of the projects with the Stakeholder group, and to discuss how the projects could potentially be combined to create more regional, comprehensive, and logistically beneficial and efficient projects. Stakeholders will also be able to present modified versions of projects to the group that they feel better integrate with the goals and objectives of the Lahontan Basins Region as well as other projects.

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

For the proposed IRWM Plan, the LBRWGM will use these priorities as the basis for discussion and will revisit and update these priorities (see Task 3 of the Work Plan) as needed through meeting with the Stakeholder Group.

Task 2.4 Data and Technical Analysis

This task will develop the standards for data and technical analysis collected/performed and how that data is managed.

1. Data Management

Collection and dissemination of data to stakeholders, agencies, and the general public will be integrated into the LBIRWM Plan process to ensure overall success. A requirement of the Proposition 50 Guidelines is the routine reporting on project performance. The routine collection of this data naturally lends itself to the routine collection and reporting that is required as part of the LBIRWM Plan process. The stakeholders have suggested, as one potential option which would have to be agreed to by the RWMG, that the Honey Lake Valley RCD (HLVRCD), as the potential grant contracting entity, compile the reporting of this IRWM Plan and work individually with the project proponents to receive updates on individual project progress. It was suggested that a standardized reporting format be created which the HLVRCD could use to compile this data, which could then be uploaded to the project website described in more detail below. Data collected or produced as part of the LBIRWM Plan will then be presented and disseminated during quarterly meetings.

A public website has been created to store data and information about the LBIRWM Plan process so that the public can find information about public meeting dates, agendas, and notes. The website provides information on the LBIRWM Plan process and posts annual reports and relevant documents that can be downloaded. Data collected during the LBIRWM Plan process will be available on the website as well. The website will also provide links to other existing monitoring programs to promote data between these programs and the LBIRWM Plan. This will provide a means to identify data gaps (e.g., information needed to provide a more complete assessment of the status of a specific issue or program) and to ensure that monitoring efforts are not duplicated between programs.

The LBIRWM Plan website (www.honeylakevalleyrcd.us/LBIRWMP) provides a mechanism for stakeholders to upload project information regarding water supply, water quality, and other benefits of the project, which will be collected in a database to manage, store, and disseminate information to the public. A data collection template will be available on the website in the future so that data collected during the LBIRWM Plan can be stored and managed in a consistent format. This template will be compatible with those used in the statewide Groundwater Ambient

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

Monitoring and Assessment (GAMA) and the Surface Water Ambient Monitoring Program (SWAMP) programs to assist in the sharing and integration of data with these programs.

2. Technical Analysis

Projects identified for implementation in the LBIRWM Plan will be supported through technical studies, which consist of collecting information from already completed projects in other areas. A Technical Advisory Committee (TAC) will be created and will review all information and post it on the Lahontan Water Plan website (www.honeylakevalleyrcd.us/LBIRWMP) for further review. Representatives from the TACs will be nominated by the LBIRWM Plan Stakeholder Group and any other participant. The TAC will be responsible for reviewing any new information, validating any assumptions that are made, reviewing the data used to make the decisions, and ultimately deciding if and how the proposed project should continue.

Deliverables

- Data Clearinghouse on website
- Data and Technical Analysis section in IRWMP

Task 2.5 Integrated Resource Management Strategies

With the development of the IRWM Plan, many different agencies and organizations have come together and have continued to work together to improve the Lahontan Basins Region by collaborating on projects that do not focus on just one concern, rather a myriad of concerns that affect the entire Region.

To help identify the many potential projects in the Lahontan Basins Region and to assess the contribution of these projects towards meeting the LBIRWM Plan objectives and planning targets, a “Call for Projects” form will be sent out to all the Stakeholders to give them the opportunity to submit their project concepts for consideration. The “Call for Projects” provides an avenue to engage the Stakeholders in the information-sharing aspect of Plan development, and will result in identification of many projects that provide multiple benefits that span more than one water management strategy.

In the determination of regional priorities, many of the criteria used to evaluate projects involve the incorporation of multiple management strategies and objectives. These criteria force projects to solve multiple issues and conflicts and force multiple agencies and organizations to work together. The IRWM Plan framework and the project selection criteria for the Lahontan Basins Region mandate that integrated resource management strategies be used.

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

Deliverables

- Document summarizing applicability of each RMS to Lahontan Basins IRWMP Region
- Integration of RMS into relevant IRWMP chapters
- RMS chapter of IRWMP

Task 2.6 Impacts and Benefits

Successful implementation of the IRWMP document and associated projects will result in a wide range of impacts and benefits. These impacts and benefits can occur on many levels, both inside and between IRWM regions. Additionally, the uncertainty of the actual magnitude of benefits or impacts can vary considerably through time and between projects and implementation efforts. The impacts and benefits of individual projects are considerably less difficult to anticipate than those associated with overall plan implementation. The design of projects will specifically include an assessment of likely impacts and benefits. Projects will be designed to ensure that the articulated benefits are met and that predicted impacts are avoided to the maximum extent possible. The performance measures developed in Task 2.7 will be specifically structured to minimize negative project impacts.

Thus, the project-specific impact and benefit section will be largely quantitative and based on the performance measures evaluation. The plan implementation level assessment will be more qualitative in nature and will rely on a cumulative assessment of predictable impacts and benefits.

Deliverables

- Table presenting impacts and benefits, both regional and interregional
- Specific strategy for updating impacts and benefits section
- Impacts and benefits section in IRWMP

Task 2.7: Evaluate and Report Plan Performance

A mechanism will be developed to evaluate and report IRWM Plan performance. This mechanism will contain criteria to be used to evaluate the progress of implementation projects in meeting the IRWM Plan objectives and the process that will link project completion to IRWM Plan implementation. This will ensure that the LBRWMG is efficiently making progress towards meeting the objectives in the IRWM Plan, the LBRWMG is implementing projects listed in the IRWM Plan, and each project in the IRWM Plan is monitored to comply with all applicable rules, laws and permit requirements. This section of the IRWM Plan will:

- Explain whom or what group within the LBRWMG will be responsible for IRWM implementation evaluation;
- List the frequency of evaluating the LBRWMG's performance at implementing projects in the IRWM Plan;
- Explain how IRWM implementation will be tracked on the Lahontan Basins Water Plan website (www.honeylakevalleyrcd.us/LBIRWMP);

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

- Discuss how findings from project-specific monitoring efforts will be used to improve the LBRWMG's ability to implement future projects in the IRWM Plan

The LBRWMG will utilize meetings of the Planning Partners, A-Team Meetings, Stakeholder Meetings, and DAC outreach efforts under Task 1 to discuss the mechanism for Plan performance monitoring and reporting.

Deliverables:

- Draft and final IRWM Plan evaluation and report plan performance component

Task 2.8: Climate Change Analysis

A climate change analysis will be conducted based on DWR's forthcoming climate change guidelines. The scope of work anticipates preparation of an evaluation of the adaptability of the water management strategy and systems in the region to climate change, including water supply, wastewater, and flood control. It also anticipates developing regional mitigation efforts to reduce the region's carbon footprint. Further, the IRWM Plan Update will contain a gross greenhouse gas (GHG) inventory of the water management systems in the region, to help define the region's baseline. Project-level GHG emissions assessments will be determined from California Environmental Quality Act (CEQA) and California Air Resources Board (CARB) documentation, where available. GHG emissions for all other regional facilities will be estimates based on industry standards. This GHG Inventory will provide an understanding of the region baseline and in selecting IRWM projects that reduce regional emissions. Along with the reduction of GHG emissions, the region will also include other mitigation efforts to combat the effects of climate change. The NRCS has been an important partner in the Lahontan Basins IRWM process and the RWMG will work closely with them to identify opportunities to promote reduce energy consumption, increase energy efficiency, and reduce GHG through their energy initiative.

Deliverables:

- Draft and final climate change component for the IRWM Plan

Task 2.9 Plan Implementation

The LBIRWM Plan will establish broad objectives and planning targets for the entire Lahontan Basins Region. The Lahontan Regional Water Management Group (RWMG), created for the development and implementation of the LBIRWM Plan, cannot feasibly assume responsibility for meeting all of the objectives and planning targets. Thus, projects and management actions implemented by the LBIRWM Plan stakeholders will likely remain the primary means by which the IRWM Plan's objectives are contributed. As acknowledged in a number of the stakeholder meetings, many of the local agencies increasingly acknowledge the value of collaboration in the

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

planning, design, implementation, funding, monitoring and maintenance of integrated projects. Implementation of the LBIRWM Plan supports the development of integrated projects, provides a comprehensive framework that can support planning by individual agencies and jurisdictions, and encourages integrated planning for those issues that could benefit from a regional approach. Numerous plans and studies related to water resources and land use management in the Lahontan Basins Region have and will contribute to the development of the IRWM Plan.

Implementation of the LBIRWM Plan will address many of the policies and goals found in the planning documents of the Lahontan Region. By doing so, it also plays a crucial role of placing these plans into a regional context, while preserving the outcomes of the individual planning efforts. Most of the implementation projects come directly from local planning documents. Altogether, the projects that will be included in the LBIRWM Plan will directly implement elements of a number of local plans and studies, including: Lassen County Groundwater Management Plan, Lassen/Susanville/SIR Hazard Mitigation Plan, and the City of Susanville Stormwater Management Plan. The LBIRWM Plan will also include projects that meet the water quality objectives of the Lahontan RWQCB Basins Plan, and the water supply reliability, water quality, open space and recreation, and flood management goals, policies, and programs of the Lassen County General Plan.

A substantial number of federal, state and local/regional agencies and jurisdictions are responsible for, or participate in, the development and implementation of plans and programs that satisfy the water management strategies discussed earlier in this report. Much effort is required to assure cross-agency coordination and integration for the development of regional plans and projects for individual water management strategies or that incorporate multiple water management strategies. Stakeholders and members of the RWMG have already come forward with a number of implementation project suggestions for the IRWM Plan, including:

- Irrigation infrastructure improvement on Susan River
- Improvements to critical habitat for the sage-grouse
- Erosion control along numerous stream banks in the region
- Stream channel restoration and removal of hydrologic barriers in Pine Creek watershed
- Increase groundwater monitoring and management in Eagle Lake basin to better understand the substantial contribution of groundwater to lake levels
- Susan River Parkway within the City of Susanville
- Implementation of Susan River Perennial Pepperweed Control Plan
- Forest thinning and restoration

The Lahontan Basins Region will benefit from the development of the IRWM Plan by providing context for the numerous agencies and organization to discuss projects that need to be done in

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

the Region including addressing agricultural water loss issues, noxious weed issues and water quality issues by promoting watershed restoration projects as well as by developing a Salt/Nutrient Management Plan, developing an integrated flood management plan, continuing outreach to DACs and examining their needs, and assessing the impacts of climate change.

As the technical evaluations move forward, the LBRWMG will refine the objectives (listed in Table 3) to guide the region. The LBRWMG will utilize meetings with the Advisory Team, LBIRWM Plan Stakeholder Group and DAC representatives under Task 1 to discuss and refine IRWM Plan goals and objectives.

The LBRWMG will refine the implementation framework included in the IRWM Plan. These steps may focus on the following long-term activities:

- Implementation of priority projects that support the region's IRWM goals and objectives
- Reevaluating the long-term governance and funding structure detailed in the IRWM Plan to guide the ongoing development and implementation of the region's IRWM Plan Update
- Developing a revised project prioritization structure that reflects the new technical information obtained from the climate change analysis, SMP, and FMP.
- Establishing a formal procedure for adding and reprioritizing projects in the IRWM Plan in the future
- Revisiting the needs assessment in the IRWM Plan and developing recommendations for addressing existing technical deficiencies in the region

Deliverables:

- Draft implementation framework for the IRWM Plan
- Final implementation framework for the IRWM Plan

Task 2.10: Prepare IRWM Plan

The LBRWMG will prepare a Draft IRWM Plan based on the results of information obtained from **Tasks 2.1** through **2.9** outlined above, as well as the **Tasks 3.1** (DAC Evaluation), **Task 3.2** (Salt/Nutrient Management Plan), and **Task 3.3** (Flood Management Plan) for review and approval by the Planning Partners and other regional stakeholders.

Based on the comments received from the Planning Partners, Stakeholder Group and general public, the LBRWMG will prepare a Final IRWM Plan. Following one round of revisions based on final comments, the LBRWMG will provide the IRWM Plan for presentation to the LBRWMG governing bodies.

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

All LBRWMG members will adopt the IRWM Plan within two years of Planning Grant contract execution.

Deliverables:

- Draft IRWM Plan
- Final IRWM Plan

Task 3: Technical Evaluations

As discussed in Section I, the next logical set of IRWM planning and implementation activities include three key technical activities:

- DAC Water Supply, Quality and Flooding Evaluation
- Salt/Nutrient Management Planning
- Integrated Flood Management

Task 3.1: DAC Water Supply, Quality and Flooding Evaluation

The objective of this task is to review information about water supply, water quality and flooding issues in DAC areas; to identify DAC needs with respect to these three items; and develop management strategies and/or monitoring plans for the DAC.

Subtask 3.1.1: Coordination Meetings

With the efforts of the proposed Public Outreach Subcommittee and the DAC Outreach Programs, the LBRWMG will directly discuss the issues related to water supply, water quality and flooding with the DACs. These meetings will allow for the discussion of the collected material and development monitoring studies for the DACs as well as get input from members or representatives of the DACs. Personal interviews may also be conducted with community representatives in order to understand needs that may not be adequately addressed in existing plans. These meetings are meant to be supplemental to the meetings conducted under Task 1.3 and more focused on further characterizing DAC issues.

Deliverables:

- Draft and final agendas, materials and handouts, and meeting notes

Subtask 3.1.2: Compile and Review Water Quality and Supply and Flooding Data for DACs

The LBRWMG shall obtain relevant data to water quality, water supply and flooding for the DAC areas from member agencies and stakeholders, including those listed under Task 1.3. The

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

data will be analyzed to determine if monitoring studies should be implemented, when future projects will be required, and what the DAC areas need.

Deliverables:

- Data requests
- Summary memo with maps, figures, and tables summarizing data
- Presentation for LBRWMG agencies regarding DAC water quality issues

Subtask 3.1.3: Develop Water Quality and Supply and Flooding Monitoring Plan for DACs

Based on the data collected, monitoring plans will be developed to fill in data gaps and provide ongoing assessment of the water quality and supply and flooding issues for the DAC areas. Areas with the most urgent issues will be given priority for the monitoring plans.

Deliverables:

- Draft DAC Monitoring Plan
- Final DAC Monitoring Plan

Task 3.2: Salt/Nutrient Management Plan (SMP)

The groundwater Basins within the Lahontan Region are closed Basins, meaning there is no outlet for water to flow to the ocean. When water enters a closed Basin, any minerals or chemicals in the water typically accumulate in the Basins.

The development of a Salt/Nutrient Management Plan (see Task 3.2 in the Work Plan) will help the Region meet its future water demand by making surface water and groundwater a more reliable water supply source in the future.

The objective of this task is to develop this regional Salt/Nutrient Management Plan (SMP) to manage salts and nutrients (and possibly other constituents of concern) from all sources within the Basins to maintain water quality objectives and support beneficial uses. The data collected from the development of the SMP, the findings it documents, and recommendations it will provide will have significant implications for water supply, recycled water, sanitation, and other water quality projects in the IRWM Plan. In addition, all the stakeholders involved in developing the SMP are also active participants in the IRWM stakeholder forum. As such, the SMP is considered an integral and necessary part of the IRWM Plan and thus is included in this work plan. The SMP will ultimately be added to the IRWM Plan as an appendix and the necessary sections of the IRWM Plan will be updated as applicable.

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

Subtask 3.2.1: Stakeholder Participation

Meetings will be held with the SMP Committee to discuss the recommended strategies for monitoring the salt and nutrient concentrations throughout the Lahontan Basins Region, and the projects or programs to manage the salt content in the Basins. The SMP Committee will report their progress at the regularly scheduled LBIRWM Plan Stakeholder Group Meetings.

Deliverables:

- Draft and final agendas, materials and handouts, and meeting notes from SMP Committee meetings

Subtask 3.2.2: Understand Current and Future Basins Uses

A database will be created of current land uses that potentially contribute salts and nutrients to the Basins. Once that is completed, a map with land uses will be developed that includes: irrigation sites, wastewater disposal sites and other potential sources of salinity/nutrient contributions to the groundwater supply.

Deliverables:

- Map depicting land uses potentially contributing salts and nutrients to the Basins within the SMP boundary

Subtask 3.2.3: Create Groundwater Quality Database for Sub Basins

Groundwater characteristics and recharge areas will be determined and background water quality information will be compiled and a database of existing information for the sub-Basins will be created. The existing water quality, defined as the average concentration of salts/nutrients and other constituents of concern measured at each well, will also be examined and added to the database.

Deliverables:

- Database of existing ground and surface water monitoring efforts
- Figures and tables summarizing groundwater quality

Subtask 3.2.4: Data Analysis

A regional analysis of available groundwater quality databases will be conducted to determine whether sufficient data and ongoing monitoring is available to characterize the salt/nutrient loadings and concentrations in each sub-Basins.

Deliverables:

- Brief memorandum summarizing data analysis outcomes

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

Subtask 3.2.5: Salt and Nutrient Characterization

To characterize the salts and nutrients in the sub-Basins, the following steps will be taken:

- Determine the Basin's assimilative capacity of salts/nutrients
- Determine the fate and transport of salt/nutrients
- Include other constituents of concern as necessary and appropriate
- Identify potential salt sinks

Future planning scenarios for future users/uses will then be developed. Planning scenarios may include appropriate planning spans, including, for example, a 5-year plan, 10-year plan, 25-year plan and a 50-year projected plan, or some combination as determined by the stakeholders. A draft report will be prepared and submitted to the stakeholders to present the data collected during Basins characterization and the results for assimilative capacity (by sub-Basins).

Deliverables:

- Figures and tables summarizing data
- Draft report on characterization of Basins

Subtask 3.2.6: Develop a Monitoring Plan

Based on results of prior tasks, a Groundwater Monitoring Plan shall be designed to fill data gaps and provide ongoing assessment of salt and nutrient issues throughout the study area. In the development of the monitoring plan, the scale of the plan and the salts, nutrients and constituents to be monitored must be determined. Appropriate monitoring will be determined by targeting Basins water quality at existing water supply and monitoring wells. The monitoring plan shall be designed to evaluate the long-term impacts to groundwater quality resulting from current and future land uses. Special care will be given to incorporating monitoring locations within DACs to ensure that water supply and water quality objectives for these areas are maintained.

Deliverables:

- Identify stakeholders responsible for conducting, compiling, and reporting the monitoring data
- Draft monitoring plan
- Final monitoring plan

Subtask 3.2.7: Monitoring Implementation

Once the Monitoring Plan is finalized, monitoring at each location at a determined frequency will be performed, to assess impacts and changes in all significant sources. A set of criteria will be developed to define when concentrations are above typical ambient concentrations. If the observed concentration is above the ambient concentration, an investigation will begin.

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

Deliverables:

- Figures and tables summarizing collected data

Subtask 3.2.8: Manage Salt and Nutrient Loadings on a Sustainable Basis

Best management practices and other methods to reduce and/or maintain salt and nutrient loading such as disposal, reducing methods, or projects to beneficially reuse highly concentrated brine or salts and nutrients within or near the Lahontan will be identified and the most appropriate methods will be summarized as new projects in the IRWM Plan. Project reports will be developed and included in the IRWM Plan for high-priority projects proposed to manage salts and nutrients in the Basins.

Deliverables:

- Memorandum describing most appropriate management strategies
- Project reports for high-priority projects

Subtask 3.2.9: Anti-degradation Analysis

The projects included in the SMP (identified in **Subtask 3.2.8**) will be shown to satisfy the requirements of the State Anti-degradation Policy (Resolution No. 68-16).

Deliverables:

- Memorandum on anti-degradation analysis

Subtask 3.2.10: Salt/Nutrient Management Plan Appendix

A Salt/Nutrient Management Plan Appendix to the IRWM Plan will be developed to summarize all efforts of this task and the next steps in the development of the Basins objectives for key constituents as well as best practices designed to maintain water quality in the future. The SMP will be based on the outline that was developed in the Salt/Nutrient Management Plan Committee meetings. The information contained within the Appendix will also be presented to the LBIRWMP Stakeholder Group. Findings and recommendations from the SMP will be incorporated into the relevant section of the IRWM Plan.

Deliverables:

- Draft Salt/Nutrient Management Plan Appendix to the IRWM Plan
- Final Salt/Nutrient Management Plan Appendix to the IRWM Plan

Task 3.3: Integrated Flood Management Plan

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

The Lahontan Basins Region is prone to flooding during extreme storm events. This situation is aggravated by the current condition of the stream systems within the region that are detached from the flood plain and lack natural features to absorb the impact of flood events. The City of Susanville lacks a coordinated and comprehensive drainage infrastructure system for managing stormwater and urban runoff. Stormwater tends to be of poor quality and high in sediment, and is further degraded by urban runoff. In addition, the spread of perennial pepperweed (*Lepidium latifolium*), a noxious weed that is devastating agricultural and natural resources in the region, is spread through flood events.

The need for regional coordination of flood control efforts becomes more readily apparent as urban development and paved surfaces increase throughout the Lahontan Basins Region. The development of an Integrated Flood Management Plan will eliminate the negative impacts of flooding in the Region.

The objective of this task is to develop an Integrated Flood Management Plan that prioritizes opportunities to capture and utilize stormwater for other beneficial uses rather than simply mitigating flooding impacts.

The development of the FMP will be performed under the guidance of a Flood Management Committee formed from the LBIRWMP Stakeholder Group and LBRWMPG. This group will be tasked with both assisting with the technical development of an FMP and also providing recommendations for future flood management governance and funding strategies.

The FMP will ultimately be added to the IRWM Plan as an appendix and the necessary sections of the IRWM Plan will be updated as applicable.

Subtask 3.3.1: Catalog and Review Existing Flood Management Plans

A list of all existing flood management plans in the Region will be assembled and reviewed. Information about applicability, breadth and currency will be documented. Existing surface water flow/flood prediction models will also be cataloged and reviewed as part of this task. In addition, any identified flood control projects in both near-term and long-term phases will be identified.

Deliverables:

- Draft and final matrix of existing flood management plans and projects in planning phase

Subtask 3.3.2: Document Flood Protection Needs

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

Using the review of existing flood management plans as a starting point, the LBRWMG will work with the communities in the Region to understand and document existing flood protection needs. Personal interviews will be conducted with staff from municipalities and other local agencies/groups in order to understand flood protection needs that may not be adequately addressed in existing plans. This task will be combined with **Task 1.3**, which focuses on DAC flood control needs.

Deliverables:

- Draft and final memo of flood protection needs

Subtask 3.3.3: Develop Methodology to Catalog and Prioritize Flood Projects

Working with the LBIRWM Plan Stakeholders, the LBRWMG will develop a methodology to catalog and prioritize flood protection projects to be considered for the LBIRWM Plan. This methodology will follow the methodologies used for ranking other IRWM projects but will also consider issues specific to flood management such as flood frequency and flood severity and give highest priority to projects that provide flood protection while recharging groundwater, protecting water quality, and enhancing habitat.

Deliverables:

- Draft and final memo of methodology to prioritize flood projects

Subtask 3.3.4: Develop a Regional Vision for Multi-Benefit Flood Protection

Working with the LBIRWMP Stakeholders, the LBRWMG will develop a regional vision for what, how, and where multi-benefit flood projects shall be developed in response to the needs and opportunities identified in **Tasks 3.3.1, 3.3.2, and 3.3.3**.

This task will also be used to identify and develop potential institutional arrangements that would form the basis for regional coordinated flood planning as well as provide a funding stream for projects identified through this and ongoing flood planning efforts. A proposed Flood Management Committee of the LBIRWM Plan Stakeholders will meet to discuss the benefits and drawbacks of various mechanisms and arrive at a recommendation to be provided to the broader LBIRWM Stakeholder Group as well as relevant governing boards who currently have some level of responsibility for flood management activities.

Deliverables:

- Draft and final vision for multi-benefit flood protection, project opportunities and institutional and funding arrangements

Subtask 2.3.5: Facilitate Regional Participation in NFIP CRS

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

The National Flood Insurance Program's (NFIP) Community Rating System (CRS) is a voluntary incentive program that recognizes and encourages community floodplain management activities that exceed the minimum NFIP requirements. As a result, flood insurance premium rates are discounted to reflect the reduced flood risk resulting from the community actions. The three goals of the CRS are:

1. Reduce flood losses
2. Facilitate accurate insurance rating
3. Promote the awareness of flood insurance

To promote this program, a memorandum will be developed that describes what residents can do to become involved in the CRS.

Deliverables:

- Draft and final memorandum promoting involvement in CRS

Subtask 2.3.6: Facilitate Coordination between Flood Protection Efforts and Stormwater Quality Effort

As part of the IRWM Plan, the LBRWMG will assess opportunities for coordination of flood control efforts and stormwater quality efforts, particularly with regard to low-impact development (LID) features that can retain and infiltrate stormwater runoff at the property or neighborhood scales. The extent to which these practices can be employed and expanded upon to assist with flood protection efforts will be evaluated within the IRWM Plan Update.

Deliverables:

- Draft and final memorandum on coordination between flood protection and stormwater quality

Subtask 2.3.7: Compile Integrated Flood Management Plan

The LBRWMG will compile the work from all subtasks above into a comprehensive Integrated Flood Management Plan for the Lahontan Basins Region. This comprehensive plan will lay out the current state of the Region's flood protection facilities, local stakeholder's vision for integrated flood planning, recommendations for participating in CRS and implementing various State programs, and recommendations for institutional and funding arrangements to oversee implementation of the FMP. This comprehensive plan will assist DWR with development of the FloodSAFE Strategic Plan (<http://www.water.ca.gov/floodsafe/plan/>).

Lahontan Basins Integrated Regional Water Management Planning Grant Proposal

Deliverables:

- Draft Integrated Flood Management Plan Appendix to IRWM Plan
- Final Integrated Flood Management Plan Appendix to IRWM Plan

Task 4: Project Management/Administration

Task 4.1: Progress Monitoring, Reporting, Invoicing, and Final Report

As this work plan is executed, progress will be monitored and reported by agency staff, project staff, and consultants performing work and overseeing the activities to ensure the timely delivery of deliverables on budget. This includes monthly reports and invoices from consultants, monthly reports from agency staff on in-kind contributions, quarterly reports that will be provided to DWR (with a summary provided to the Stakeholder Group), and a final report to DWR. As shown in Attachment 4, administrative costs total approximately 10% of the overall budget.

Deliverables:

- Monthly consultant progress reports and invoices
- Monthly progress reports from agencies to track in-kind services
- Quarterly reports to DWR
- Final report to DWR